

[illegible]

<block>
 <column>
 <dynamic>
 <emph>
 <foreach>
 <form>
 <head1><head2>
 <heading>
 <hidden>
 <if><then><else>
 <image>
 <invocation>
 <invocations>
 <link>
 <links>
 <list>
 <listitem>
 <option>
 <orderby>
 <para>
 <param>
 <portlet>
 <searchable>
 <selectlist>

 <table>
 <target>
 <td>
 <textinput>
 <tieredlist>
 <tieritem>
 <title>
 <tuple>
 <value>
 <view>
 <viewlink>

<block>

Defines a block in a document.

Usage

```
<block>  
</block>
```

Parents

<view>, <tieritem>, <form>

Children

(<head1> | <head2> | <para> | <list> | <if> | <foreach>)*

Example

The following example is a simple "Hello World" written in MaxML.

```
<portlet title="Hello" defaultview="hello">  
  <view name="hello" type="PORTAL">  
    <title>Hello</title>  
    <block>  
      <para>Hello World.</para>  
    </block>  
  </view>  
</portlet>
```

<column>

Defines a column in a table.

Usage

```
<column name="name" title="title" shorttitle="shorttitle">
</column>
```

name

Defines the name of the column.

title

Defines the title of the column.

shorttitle

Defines the shorttitle of a column to be used

Parents

<table>

Children

EMPTY

Example

```
<table>
  <column name="title" title="Title"/>
  <column name="author" title="Author"/>
  <orderby column="title"/>

  <searchable column="title">
    <foreach xpath="//TITLE">
      <value><dynamic xpath="."/></value>
    </foreach>
  </searchable>

  <foreach xpath="//BOOK">
    <tuple>
      <td column="title"><dynamic xpath="TITLE"/></td>
      <td column="author"><dynamic xpath="AUTHOR"/></td>
    </tuple>
  </foreach>
</table>
```

<dynamic/>

Inserts dynamic content and executes xpath.

Usage

```
<dynamic xpath="xpath_value"/>
```

xpath

Parents

<listitem>, <head1>, <head2>, <para>, <emph>,

Children

EMPTY

Example

```
<view name="portlet" type="PORTAL" logic="hellologic">
  <title>Hello</title>
  <block>
    <foreach xpath="//NAME">
      <para>hello <dynamic xpath="."/></para>
    </foreach>
  </block>
</view>
```

<emph>

Indicates that something is supposed to be stressed.

Usage

```
<emph>  
</emph>
```

Parents

<listitem>, <head1>, <head2>, <para>, <emph>,

Children

(#PCDATA | <emph> | | <image> | <dynamic> | <if> | <foreach>)*

Example

```
<para>  
  This is an example of <emph>emphasis.</emph>  
</para>
```

<foreach>

Iterates through a list of elements.

Usage

```
<foreach xpath="xpath_value">
</foreach>
```

xpath

Parents

<view>, <tieredlist>, <tieritem>, <heading>, <list>, <selectlist>, <option>, <form>, <table>, <searchable>, <tuple>

Children

ANY

Example

```
<table>
  <column name="title" title="Title"/>
  <column name="author" title="Author"/>
  <orderby column="title"/>

  <searchable column="title">
    <foreach xpath="//TITLE">
      <value><dynamic xpath="."/></value>
    </foreach>
  </searchable>

  <foreach xpath="//BOOK">
    <tuple>
      <td column="title"><dynamic xpath="TITLE"/></td>
      <td column="author"><dynamic xpath="AUTHOR"/></td>
    </tuple>
  </foreach>
</table>
```

<form>

Defines a form area in a document.

Usage

```
<form target="target">  
</form>
```

target

Parents

<tieritem>

Children

(<selectlist> | <textinput> | <block> | <if> | <foreach> | <hidden>)+

Example

```
<view name="portlet" type="PORTAL" invocation="horoscopelogic">  
  <title>Horoscope</title>  
  <form action="portlet">  
    <if xpath="//sign">  
      <then>  
        <block>  
          <head1><dynamic xpath="//sign"/></head1>  
          <para><dynamic xpath="//reading"/></para>  
        </block>  
      </then>  
    </if>  
    <selectlist name="sign" default="{//sign}">  
      <option value="Aries"> Aries</option>  
      <option value="Taurus">Taurus</option>  
      <option value="Gemini">Gemini</option>  
      <option value="Cancer">Cancer</option>  
      <option value="Leo">Leo</option>  
      <option value="Virgo">Virgo</option>  
      <option value="Libra">Libra</option>  
      <option value="Scorpio">Scorpio</option>  
      <option value="Sagittarius">Sagittarius</option>  
      <option value="Capricorn">Capricorn</option>  
      <option value="Aquarius">Aquarius</option>  
      <option value="Pisces">Pisces</option>
```

```
</selectlist>
</form>
</view>
```

THESE ARE THE

<head1><head2>

Indicates that something is a heading, can be equated to <h1> and <h2> in html.

Usage

<head1>Heading</head1>

Parents

<block>

Children

(#PCDATA | <emph> | | <image> | <dynamic> | <if> | <foreach>)*

Example

<head1>Technology Headlines</head1>

<heading>

Used to declare a heading.

Usage

```
<heading>....</heading>
```

Parents

```
<tieritem>
```

Children

```
(#PCDATA|<dynamic>|<if>|<foreach>)*
```

Example

```
<tieredlist>
  <foreach set="//CATEGORIES/CATEGORY">
    <tieritem>
      <heading><dynamic xpath="NAME"/></heading>
      <if xpath="HEADLINE">
        <then>
          <block>
            <list>
              <foreach xpath="HEADLINE">
                <listitem detail="ArticleView?ARTICLEID={./@ID}">
                  <dynamic xpath="."/>
                </listitem>
              </foreach>
            </list>
          </block>
        </then>
        <else>
          <block><para>No Headlines!</para></block>
        </else>
      </if>
    </tieritem>
  </foreach>
</tieredlist>
```

<hidden/>

Used to pass a hidden value.

Usage

```
<hidden name="name" value="value" />
```

name

value

Parents

```
<form>
```

Children

EMPTY

Example

```
<hidden>  
.....  
</hidden>
```

<if><then><else>

Add Conditional Logic.

Usage

```
<if xpath="xpath_expression">
  <then>
    child elements
  </then>
  <else>
    child elements
  </else>
</if>
```

xpath

xpath_expression is any xpath expression. It is converted to a boolean using the xpath boolean() function. See the xpath specification for the definitive statement of how this works, but the basic algorithm is:

INSERT XPATH BOOLEAN FUNCTION HERE.....

Parents

<view>, <tieredlist>, <tieritem>, <heading>, <list>, <selectlist>, <option>, <form>, <table>, <searchable>, <tuple>

Children

<then>
<else>?

Example

```
<tieritem>
  <heading><dynamic xpath="NAME"/></heading>
  <if xpath="HEADLINE">
    <then>
      <block>
        <list>
          <foreach xpath="HEADLINE">
            <listitem detail="ArticleView?ARTICLEID={./@ID}">
              <dynamic xpath="."/>
            </listitem>
          </foreach>
        </list>
      </block>
    </then>
  </if>
</tieritem>
```

[illegible]

<image>

Inserts an image into the document.

Usage

```
<image src="path"/>
```

src

Defines the path of the image to be inserted.

Parents

<listitem>, <head1>, <head2>, <para>, <emph>,

Children

EMPTY

Example

```
<para>  
  <image src="images/example.jpg"/>  
</para>
```

<invocation>

Defines a specific invocation of a target.

Usage

```
<invocation name="logic" target="java">  
  child elements  
</invocation>
```

name

Used to define a name for the invocation.

target

Used to define the target value.

Parents

```
<invocations>
```

Children

```
<param>*
```

Example

```
<portlet name="hello" title="Hello" defaultview="portlet">  
  <invocations>  
    <target name="java" type="local">  
      <param name="class" value="HelloBusinessLogic"/>  
    </target>  
    <invocation name="hellologic" target="java">  
      <param name="method" value="Logic"/>  
    </invocation>  
  </invocations>  
  <view name="portlet" type="PORTAL" logic="hellologic">  
    <title>Hello</title>  
    <block>  
      <foreach xpath="//NAME">  
        <para>hello <dynamic path="."/></para>  
      </foreach>  
    </block>  
  </view>  
</portlet>
```

<invocations>

Used to define business logic invocations.

Usage

```
<invocations>
  <target>
    child elements
  </target>
  <invocation>
    child elements
  </invocation>
</invocations>
```

Parents

```
<portlet>
```

Children

```
<target>+
<invocation>+
```

Example

```
<portlet name="hello" title="Hello" defaultview="portlet">
  <invocations>
    <target name="java" type="local">
      <param name="class" value="HelloBusinessLogic"/>
    </target>
    <invocation name="hellologic" target="java">
      <param name="method" value="Logic"/>
    </invocation>
  </invocations>
  <view name="portlet" type="PORTAL" logic="hellologic">
    <title>Hello</title>
    <block>
      <foreach xpath="//NAME">
        <para>hello <dynamic path="."/></para>
      </foreach>
    </block>
  </view>
</portlet>
```


<link>

Defines a link.

Usage

```
<link target="target">
</link>
```

target

Defines the target to be used.

Parents

<view>

Children

(#PCDATA|<dynamic>)*

Example

```
<link target=".....">
</link>
```

<links>

Declares a set of links.

Usage

```
<links>  
</links>
```

Parents

```
<view>
```

Children

```
(<viewlink> | <link>)+
```

Example

```
<links>  
</links>
```

<list>

Defines a list structure.

Usage

```
<list>  
  child elements  
</list>
```

Parents

```
<block>
```

Children

```
(<listitem> | <if> | <foreach>)+
```

Example

```
<listitem>  
  <heading><dynamic xpath="NAME"/></heading>  
  <if xpath="HEADLINE">  
    <then>  
      <block>  
        <list>  
          <foreach xpath="HEADLINE">  
            <listitem detail="ArticleView?ARTICLEID={./@ID}">  
              <dynamic xpath="."/>  
            </listitem>  
          </foreach>  
        </list>  
      </block>  
    </then>  
    <else>  
      <block><para>No Headlines!</para></block>  
    </else>  
  </if>  
</listitem>
```

<listitem>

Defines an item in a list.

Usage

```
<listitem detail="detail">
    .....
</listitem>
```

detail

....

Parents

<list>

Children

(#PCDATA | <emph> | | <image> | <dynamic> | <if> | <foreach>)*

Example

```
<list>
  <foreach xpath="HEADLINE">
    <listitem detail="ArticleView?ARTICLEID={./@ID}">
      <dynamic xpath="."/>
    </listitem>
  </foreach>
</list>
```

<option>

Defines an option in a select list.

Usage

```
<option value="value">  
</option>
```

value

Parents

```
<selectlist>
```

Children

```
(#PCDATA|<if>|<foreach>|<dynamic>)*
```

Example

```
<selectlist name="sign" default="{//sign}">  
  <option value="Aries"> Aries</option>  
  <option value="Taurus">Taurus</option>  
  <option value="Gemini">Gemini</option>  
  <option value="Cancer">Cancer</option>  
  <option value="Leo">Leo</option>  
  <option value="Virgo">Virgo</option>  
  <option value="Libra">Libra</option>  
  <option value="Scorpio">Scorpio</option>  
  <option value="Sagittarius">Sagittarius</option>  
  <option value="Capricorn">Capricorn</option>  
  <option value="Aquarius">Aquarius</option>  
  <option value="Pisces">Pisces</option>  
</selectlist>
```

<orderby>

Defines the column by which to order the table.

Usage

```
<orderby column="column_name">
</orderby>
```

column

Designates the column by which to order the result set.

Parents

```
<table>
```

Children

EMPTY

Example

```
<table>
  <column name="title" title="Title"/>
  <column name="author" title="Author"/>
  <orderby column="title"/>
  <searchable column="title">
    <foreach xpath="//TITLE">
      <value><dynamic xpath="."/></value>
    </foreach>
  </searchable>

  <foreach xpath="//BOOK">
    <tuple>
      <td column="title"><dynamic xpath="TITLE"/></td>
      <td column="author"><dynamic xpath="AUTHOR"/></td>
    </tuple>
  </foreach>
</table>
```

<para>

Indicates that something is a paragraph.

Usage

```
<para>content</para>
```

Parents

```
<block>
```

Children

```
(#PCDATA|<emph>|<strong>|<image>|<dynamic>|<if>|<foreach>)*
```

Example

```
<portlet title="Hello" defaultview="hello">
  <view name="hello" type="PORTAL">
    <title>Hello</title>
    <block>
      <para>Hello World.</para>
    </block>
  </view>
</portlet>
```

<param/>

Dependent on the type of target defined.

Usage

```
<param name="name" value="value"/>
```

name

Used to define a name for the invocation.

value

Used to define the target value.

Parents

<target>

<invocation>

Children

EMPTY

Example

```
<portlet name="hello" title="Hello" defaultview="portlet">
  <invocations>
    <target name="java" type="local">
      <param name="class" value="HelloBusinessLogic"/>
    </target>
    <invocation name="hellologic" target="java">
      <param name="method" value="Logic"/>
    </invocation>
  </invocations>
  <view name="portlet" type="PORTAL" logic="hellologic">
    <title>Hello</title>
    <block>
      <foreach xpath="//NAME">
        <para>hello <dynamic path="."/></para>
      </foreach>
    </block>
  </view>
</portlet>
```


<portlet>

Root tag of a MaxML document used to define the portlet that you're creating.

Usage

```
<portlet title="title" defaultview="defaultview">  
    document contents  
</portlet>
```

title

Defines the title of the portlet.

defaultview

Defines the name of the default view for a portlet.

Parents

none

Children

```
<invocations>?  
<view>+
```

Example

```
<?xml version="1.0" standalone="no"?>  
  
<!DOCTYPE PORTLET SYSTEM http://maxml.org/dtd/portlet.dtd>  
  
<portlet title="Hello" defaultview="hello">  
    <view name="hello" type="PORTAL">  
        <title>Hello</title>  
        <block>  
            <para>Hello World.</para>  
        </block>  
    </view>  
</portlet>
```

<searchable>

Defines a column of a table to be the primary key.

Usage

```
<searchable column="column">
</searchable>
```

column

Parents

```
<table>
```

Children

```
(<value> | <if> | <foreach>)+
```

Example

```
<table>
  <column name="title" title="Title"/>
  <column name="author" title="Author"/>
  <orderby column="title"/>
  <searchable column="title">
    <foreach xpath="//TITLE">
      <value><dynamic xpath="."/></value>
    </foreach>
  </searchable>

  <foreach xpath="//BOOK">
    <tuple>
      <td column="title"><dynamic xpath="TITLE"/></td>
      <td column="author"><dynamic xpath="AUTHOR"/></td>
    </tuple>
  </foreach>
</table>
```

<selectlist>

Defines a selectlist.

Usage

```
<selectlist name="name" default="default" title="title">
.....
</selectlist>
```

name

default

title

Parents

<form>

Children

(<option> | <if> | <foreach>)+

Example

```
<view name="portlet" type="PORTAL" invocation="horoscopellogic">
  <title>Horoscope</title>
  <form action="portlet">
    <selectlist name="sign" default="{//sign}">
      <option value="Aries"> Aries</option>
      <option value="Taurus">Taurus</option>
      <option value="Gemini">Gemini</option>
      <option value="Cancer">Cancer</option>
      <option value="Leo">Leo</option>
      <option value="Virgo">Virgo</option>
      <option value="Libra">Libra</option>
      <option value="Scorpio">Scorpio</option>
      <option value="Sagittarius">Sagittarius</option>
      <option value="Capricorn">Capricorn</option>
      <option value="Aquarius">Aquarius</option>
      <option value="Pisces">Pisces</option>
    </selectlist>
  </form>
</view>
```

Indicates that something is supposed to be stressed as much as possible.

Usage

```
<strong>  
</strong>
```

Parents

<listitem>, <head1>, <head2>, <para>, <emph>,

Children

(#PCDATA|<emph>||<image>|<dynamic>|<if>|<foreach>)*

Example

```
<para>  
  This is an example of <strong>strong.</strong>  
</para>
```

<table>

Defines that something is a table interaction.

Usage

```
<table>  
</table>
```

Parents

<view>, <tieritem>

Children

```
(<column> | <if> | <foreach>)+  
<orderby> | <if> | <foreach>  
<searchable> | <if> | <foreach>  
(<tuple> | <if> | <foreach>)*
```

Example

```
<view type="PORTAL" name="BookList" logic="selectBooks">  
  <title>Books</title>  
  <table>  
    <column name="title" title="Title"/>  
    <column name="author" title="Author"/>  
    <orderby column="title"/>  
    <searchable column="title">  
      <foreach xpath="//TITLE">  
        <value><dynamic xpath="."/></value>  
      </foreach>  
    </searchable>  
  
    <foreach xpath="//BOOK">  
      <tuple>  
        <td column="title"><dynamic xpath="TITLE"/></td>  
        <td column="author">  
          <dynamic xpath="AUTHOR"/>  
        </td>  
      </tuple>  
    </foreach>  
  </table>  
</view>
```

<target>

Defines an invocation target and parameters that are specific to the invocation type.

Usage

```
<target name="name" type="type">  
  child elements  
</target>
```

name

Used to declare the name of the target.

type

Used to declare the type of the target.

Parents

```
<invocations>
```

Children

```
<param>*
```

Example

```
<portlet name="hello" title="Hello" defaultview="portlet">  
  <invocations>  
    <target name="java" type="local">  
      <param name="class" value="HelloBusinessLogic"/>  
    </target>  
    <invocation name="hellologic" target="java">  
      <param name="method" value="Logic"/>  
    </invocation>  
  </invocations>  
  <view name="portlet" type="PORTAL" logic="hellologic">  
    <title>Hello</title>  
    <block>  
      <foreach xpath="//name">  
        <para>hello <dynamic path="."/></para>  
      </foreach>  
    </block>  
  </view>  
</portlet>
```

<td>

Declares a cell in a table.

Usage

```
<td column="column">  
    ....  
</td>
```

column

Parents

<tuple>

Children

(#PCDATA|<emph>||<image>|<dynamic>|<if>|<foreach>)*

Example

```
<table>  
  <column name="title" title="Title"/>  
  <column name="author" title="Author"/>  
  <orderby column="title"/>  
  <searchable column="title">  
    <foreach xpath="//TITLE">  
      <value><dynamic xpath="."/></value>  
    </foreach>  
  </searchable>  
  
  <foreach xpath="//BOOK">  
    <tuple>  
      <td column="title"><dynamic xpath="TITLE"/></td>  
      <td column="author"><dynamic xpath="AUTHOR"/></td>  
    </tuple>  
  </foreach>  
</table>
```

[illegible]

Usage

name**title**

<form>

(#PCDATA|<dynamic>)*

```
<textinput>  
</textinput>
```


<tieredlist>

Used to define a Tiered List interaction.

Usage

```
<tieredlist>  
    child elements  
</tieredlist>
```

Parents

```
<view>
```

Children

```
(<tieritem> | <if> | <foreach>)+
```

Example

```
<view name="CategoryView" type="PORTAL" logic="categories">  
    <title>News</title>  
    <tieredlist>  
        <foreach set="//CATEGORIES/CATEGORY">  
            <tieritem>  
                <heading><dynamic xpath="NAME"/></heading>  
                <if xpath="HEADLINE">  
                    <then>  
                        <block>  
                            <list>  
                                <foreach xpath="HEADLINE">  
                                    <listitem detail="ArticleView?ARTICLEID={./@ID}">  
                                        <dynamic xpath="."/>  
                                    </listitem>  
                                </foreach>  
                            </list>  
                        </block>  
                    </then>  
                    <else>  
                        <block><para>No Headlines!</para></block>  
                    </else>  
                </if>  
            </tieritem>  
        </foreach>  
    </tieredlist>
```

</view>

SECRET

<tieritem>

Used to define an item in a tier.

Usage

```
<tieritem>
  <heading>.....</heading>
  .....
</tieritem>
```

Parents

<tieredlist>

Children

```
<heading>
(<tieritem> | <if> | <foreach>)+ | (<form> | <block> | <table> | <if> | <foreach>)
```

Example

```
<view name="CategoryView" type="PORTAL" logic="categories">
  <title>News</title>
  <tieredlist>
    <foreach set="//CATEGORIES/CATEGORY">
      <tieritem>
        <heading><dynamic xpath="NAME"/></heading>
        <if xpath="HEADLINE">
          <then>
            <block>
              <list>
                <foreach xpath="HEADLINE">
                  <listitem detail="ArticleView?ARTICLEID={./@ID}">
                    <dynamic xpath="."/>
                  </listitem>
                </foreach>
              </list>
            </block>
          </then>
          <else>
            <block><para>No Headlines!</para></block>
          </else>
        </if>
      </tieritem>
```

[illegible]

</tieredlist>

</view>

<title>

Defines the title of the view.

Usage

```
<title>  
    Title  
</title>
```

Parents

```
<view>
```

Children

```
(#PCDATA| <dynamic>)*
```

Example

```
<portlet title="Hello" defaultview="hello">  
    <view name="hello" type="PORTAL">  
        <title>Hello</title>  
        <block>  
            <para>Hello World.</para>  
        </block>  
    </view>  
</portlet>
```

<tuple>

Usage

```
<tuple detail="detail">
</tuple>
```

detail

.....

Parents

<table>

Children

(<td> | <if> | <foreach>)+

Example

```
<table>
  <column name="title" title="Title"/>
  <column name="author" title="Author"/>
  <orderby column="title"/>
  <searchable column="title">
    <foreach xpath="//TITLE">
      <value><dynamic xpath="."/></value>
    </foreach>
  </searchable>

  <foreach xpath="//BOOK">
    <tuple>
      <td column="title"><dynamic xpath="TITLE"/></td>
      <td column="author"><dynamic xpath="AUTHOR"/></td>
    </tuple>
  </foreach>
</table>
```

<value>

Usage

```
<value>  
</value>
```

Parents

```
<searchable>
```

Children

```
(#PCDATA|<dynamic>)*
```

Example

```
<table>  
  <column name="title" title="Title"/>  
  <column name="author" title="Author"/>  
  <orderby column="title"/>  
  <searchable column="title">  
    <foreach xpath="//TITLE">  
      <value><dynamic xpath="."/></value>  
    </foreach>  
  </searchable>  
  
  <foreach xpath="//BOOK">  
    <tuple>  
      <td column="title"><dynamic xpath="TITLE"/></td>  
      <td column="author"><dynamic xpath="AUTHOR"/></td>  
    </tuple>  
  </foreach>  
</table>
```

<view>

Defines an independent user interaction.

Usage

```
<view name="name" type="type" invocation="invocation">  
    child elements  
</view>
```

name

Used to define a name for the view. (name can only be a combination of upper and lower case letters and numbers.)

type

Used to declare the type of view. (The defined type must be in all caps.)

invocation

The invocation attribute is used to declare an associated invocation. The name of the designated invocation must match that of an invocation defined previously in the portlet.

Parents

```
<portlet>
```

Children

```
<title>  
<tieredlist> | <form> | <block> | <table> | <if> | <foreach>  
<links>?
```

Example

```
<portlet title="Hello" defaultview="hello">  
    <view name="hello" type="PORTAL">  
        <title>Hello</title>  
        <block>  
            <para>Hello World.</para>  
        </block>  
    </view>  
</portlet>
```


<viewlink>

Defines a link to a view.

Usage

```
<viewlink target="target">
</viewlink>
```

target

Parents

<links>

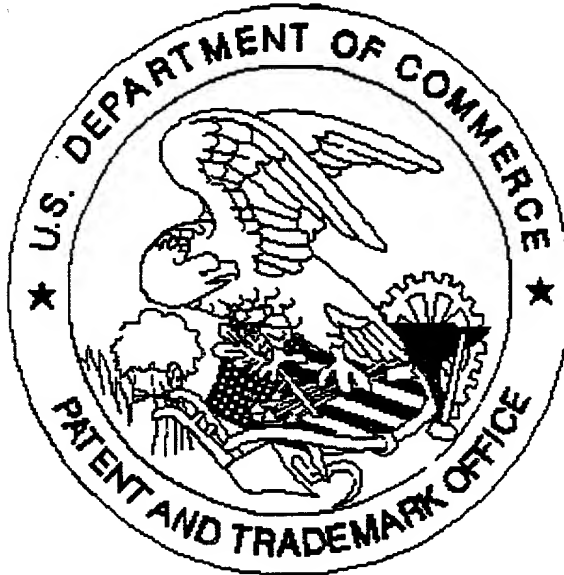
Children

(#PCDATA|<dynamic>)*

Example

```
<viewlink>
.....
</viewlink>
```

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